

A Nidec Group Company



DC Axial Fan Catalogue

G Series



high efficiency motor

Built-in PWM control circuit

high air flow

low noise

Industry leader

reduces driving current

allows for lower input power

lower noise

The industry leader in high air flow and low noise.
High efficiency motor reduces driving current.
Built-in PWM control circuit allows
for lower input power and lower noise.

DC Axial Fan
Fixed Blade Type
G0838C



□ 80 × 38 (□ 3.2" × 1.5")
Max. airflow : 2.83 m³/min
Max. static pressure : 470 Pa
Mass : 230 g

Fan model code

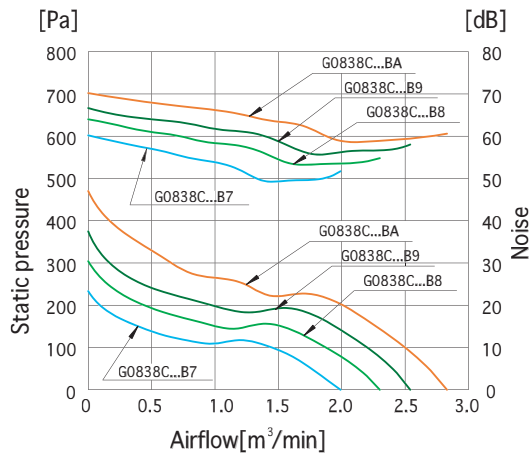
G0838C12BAZP-00
G0838C24BAZP-00
G0838C12B9ZP-00
G0838C24B9ZP-00
G0838C12B8ZP-00
G0838C24B8ZP-00
G0838C12B7ZP-00
G0838C24B7ZP-00

Standard specification

Max. airflow		Max. static pressure		Noise dB	Speed [min ⁻¹]		Input W	Voltage spec. V		Current mA		Model code	Operating temp. range °C
m³/min	CFM	Pa	inH ₂ O		Max.	min.		Rating	Operating Range	Rating	Starting		
2.83	100	470	1.89	60	8000	1800	20.5	12	8.4-13.8	1700	3750	G0838C12BAZP-00	-20 ~ +70
							19.2	24	16.8-27.6	800	1650	G0838C24BAZP-00	
2.5	88	360	1.45	57	7200	1700	14.4	12	8.4-13.8	1200	3300	G0838C12B9ZP-00	
							14.4	24	16.8-27.6	600	1500	G0838C24B9ZP-00	
2.25	79	290	1.17	54	6400	1500	10.8	12	8.4-13.8	900	2900	G0838C12B8ZP-00	
							10.0	24	16.8-27.6	420	1300	G0838C24B8ZP-00	
2.0	71	220	0.88	50	5600	1200	7.2	12	8.4-13.8	600	2500	G0838C12B7ZP-00	
							7.2	24	16.8-27.6	300	1200	G0838C24B7ZP-00	

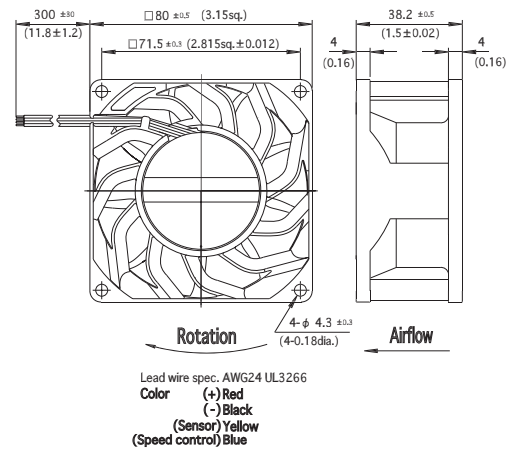
- Figures in the table are average measured values. Please request the product delivery specification when preparing a purchase specification.
- The characteristics are the values at rated voltage (12V, 24V, 48 V), and normal temperature and humidity.

Standard airflow and static pressure characteristics (At rated voltage)

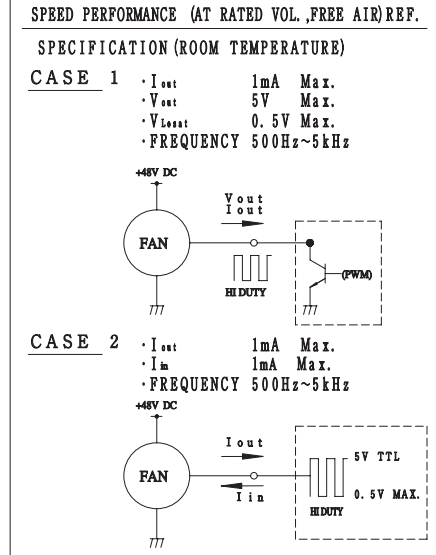
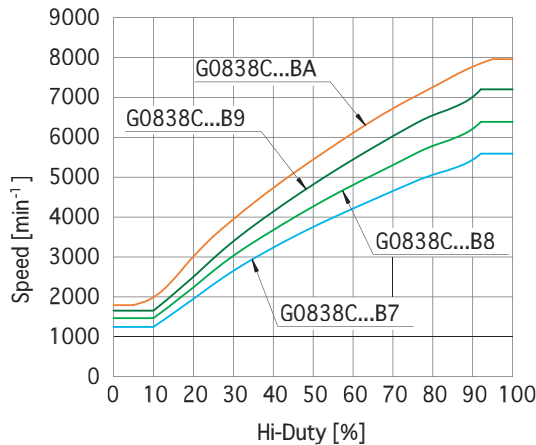


External dimensions in mm (inches)

Lead wire type



PWM speed control specification



For cooling and/or ventilating in electronic cabinets which have high resistance to air flow (system impedance). The G0838 is designed using a digital analysis system to maximize cooling efficiency and minimize noise during operation. Uniquely formed fixed blades designed by digital engineering:

- Controls spread of air stream.
- When two G0838 fans are stacked, the static pressure is almost doubled.
- It is suitable for use in highly reliable/redundant designs; the trend of cooling systems.

- To ensure correct installation and smooth operation please obtain a drawing for approval or reference drawing from Japan Servo Co.

DC Axial Fan
Fixed Blade Type**G0938B**

□ 92 × 38 (□ 3.62" × 1.5")
 Max. airflow : 3.9 m³/min
 Max. static pressure : 490 Pa
 Mass : 320 g

Fan model code

G0938B12BAZP-00

G0938B24BAZP-00

G0938B48BAZP-00

G0938B12B9ZP-00

G0938B24B9ZP-00

G0938B48B9ZP-00

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G0938B24B8ZP-00

G0938B48B8ZP-00

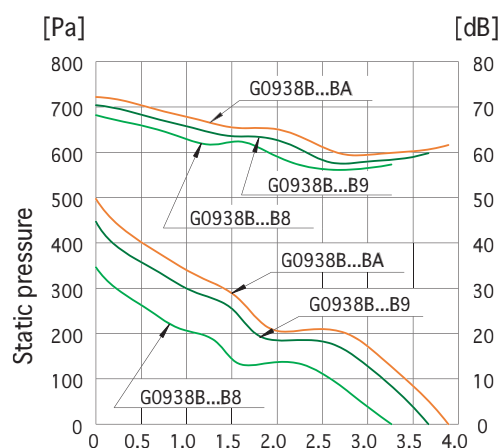
■ Standard specification

Max. airflow		Max. static pressure		Noise dB	Speed [min ⁻¹]		Input W	Voltage spec. V		Current mA		Model code	Operating temp. range °C
m³/min	CFM	Pa	inH ₂ O		Max.	min.		Rating	Operating Range	Rating	Starting		
3.9	138	490	1.97	63	7500	2100		31.2	12	8.4-13.2	2600	4900	-20 ~ +60
								31.2	24	16.8-26.4	1300	2700	
								29.3	48	36-52.8	610	1360	
3.6	127	440	1.77	61	7000	2000		24.0	12	8.4-13.8	2000	4600	
								24.0	24	16.8-27.6	1000	2600	
								25.0	48	36-55.2	520	1100	
3.2	113	350	1.41	58	6300	1600		18.0	12	8.4-13.8	1500	3800	-20 ~ +70
								16.8	24	16.8-27.6	700	2000	
								17.3	48	36-55.2	360	840	

● Figures in the table are average measured values. Please request the product delivery specification when preparing a purchase specification.

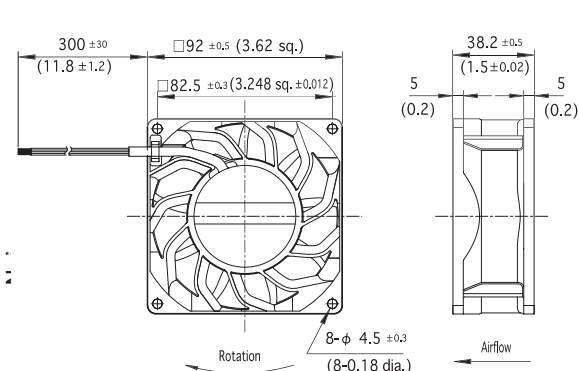
● The characteristics are the values at rated voltage (12V, 24V, 48 V), and normal temperature and humidity.

■ Standard airflow and static pressure characteristics (At rated voltage)



■ External dimensions in mm (inches)

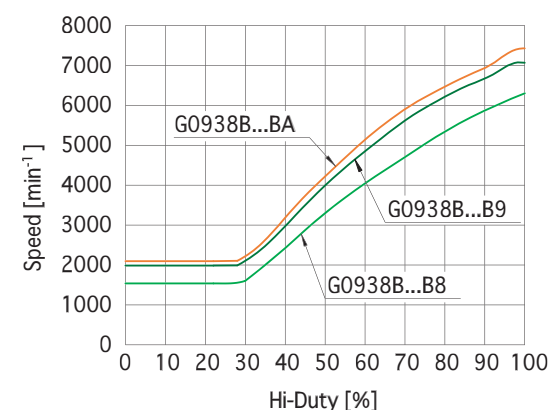
● Lead wire type



Lead wire spec. AWG24 UL3266

Color (+) Red
 (-) Black
 (Sensor) Yellow
 (Speed control) Blue

■ PWM speed control specification

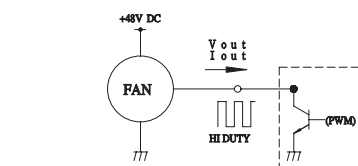


SPEED PERFORMANCE (AT RATED VOL., FREE AIR) REF.

SPECIFICATION (ROOM TEMPERATURE)

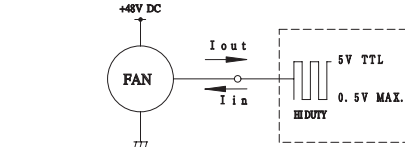
CASE 1

- I_{out} 1mA Max.
- V_{out} 5V Max.
- V_{load} 0.5V Max.
- FREQUENCY 500Hz~5kHz



CASE 2

- I_{out} 1mA Max.
- I_{in} 1mA Max.
- FREQUENCY 500Hz~5kHz



For cooling and/or ventilating in electronic cabinets which have high resistance to air flow (system impedance). The G0938 is designed using a digital analysis system to maximize cooling efficiency and minimize noise during operation. Uniquely formed fixed blades designed by digital engineering:

- Controls spread of air stream.
- When two G0938 fans are stacked, the static pressure is almost doubled.

It is suitable for use in highly reliable/redundant designs; the trend of cooling systems.

● To ensure correct installation and smooth operation please obtain a drawing for approval or reference drawing from Japan Servo Co.

DC Axial Fan
Fixed Blade Type
G1238B



□ 119 × 38 (□ 4.69" × 1.5")
Max. airflow : 7.4 m³/min
Max. static pressure : 520 Pa
Mass : 480 g

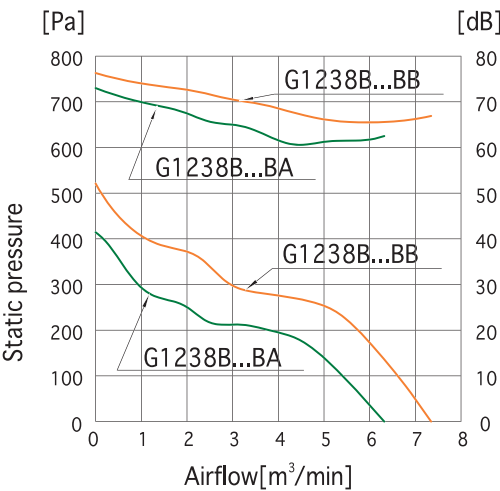
Fan model code
G1238B12BBZP-00
G1238B24BBZP-00
G1238B48BBZP-00
G1238B12BAZP-00
G1238B24BAZP-00
G1238B48BAZP-00

Standard specification

Max. airflow		Max. static pressure		Noise dB	Speed [min ⁻¹]		Input W	Voltage spec. V		Current mA		Model code	Operating temp. range °C
m ³ /min	CFM	Pa	inH ₂ O		Max.	min.		Rating	Operating Range	Rating	Starting		
7.4	261	520	2.09	67	6300	1000	53.4	12	9.6-13.8	4450	6100	G1238B12BBZP-00	-20 ~ +60
							52.8	24	16.8-27.6	2200	3100	G1238B24BBZP-00	
							52.8	48	36-55.2	1100	1600	G1238B48BBZP-00	
6.3	223	415	1.67	64	5300	1000	33.6	12	9.6-13.8	2800	3900	G1238B12BAZP-00	-20 ~ +70
							31.2	24	16.8-27.6	1300	2000	G1238B24BAZP-00	
							31.7	48	36-55.2	660	970	G1238B48BAZP-00	

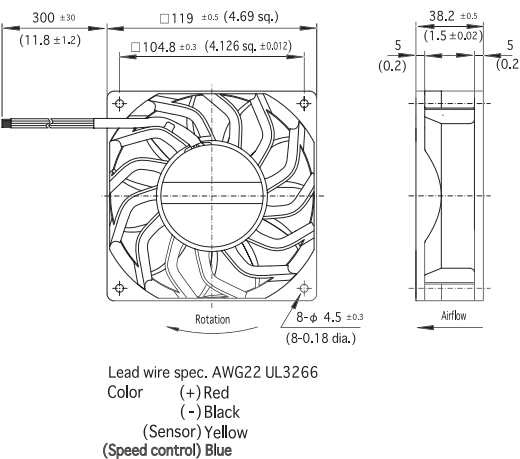
- Figures in the table are average measured values. Please request the product delivery specification when preparing a purchase specification.
- The characteristics are the values at rated voltage (12V, 24V, 48 V), and normal temperature and humidity.

Standard airflow and static pressure characteristics (At rated voltage)

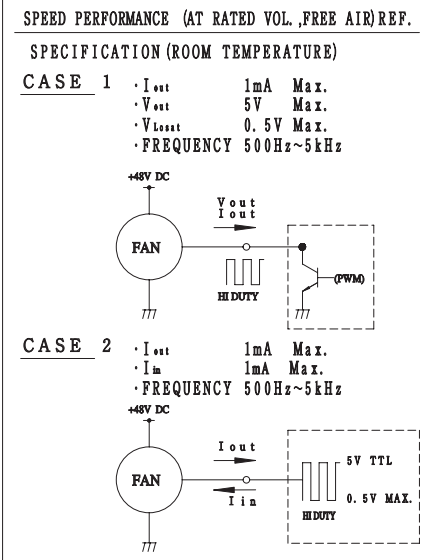
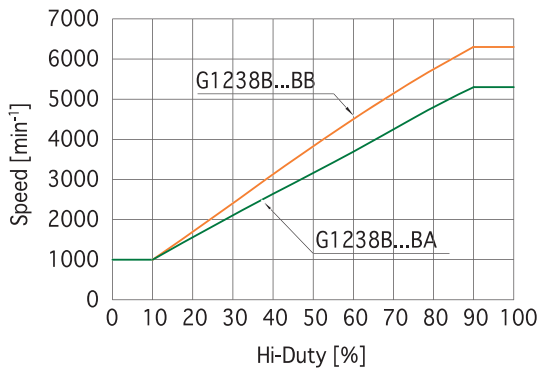


External dimensions in mm (inches)

Lead wire type



PWM speed control specification



For cooling and/or ventilating in electronic cabinets which have high resistance to air flow (system impedance).
The G1238 is designed using a digital analysis system to maximize cooling efficiency and minimize noise during operation.
Uniquely formed fixed blades designed by digital engineering:

- Controls spread of air stream.
- When two G1238 fans are stacked, the static pressure is almost doubled.

It is suitable for use in highly reliable/redundant designs; the trend of cooling systems.

- To ensure correct installation and smooth operation please obtain a drawing for approval or reference drawing from Japan Servo Co.

DC Axial Fan
Fixed Blade Type**G1751M**

$\phi 172 \times 150 \times 51$
($\phi 6.8" \times 6.0" \times 2.0"$)
Max. airflow: 12 m³/min
Max. static pressure: 1000 Pa
Mass: 0.82 kg

Fan model code

G1751M48BAZP300

G1751M24B9ZP300

G1751M48B9ZP-00

G1751M24B8ZP300

G1751M48B8ZP-00

G1751M24B7ZP-00

G1751M48B7ZP-00

G1751M24B6ZP-00

G1751M48B6ZP-00

G1751M24B5ZP-00

G1751M48B5ZP-00

Standard specification

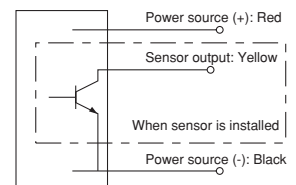
Max. airflow		Max. static pressure		Noise dB	Speed [min ⁻¹]		Input W	Voltage spec. V		Current mA		Model code	Operating temp. range °C
m ³ /min	CFM	Pa	inH ₂ O		Max.	min.		Rating	Operating Range	Rating	Starting		
12	424	1000	4.02	76(9m ³ /min)	7400	3800	142	48	36-60	2950	4600	G1751M48BAZP300	-20 ~ +60
11.2	395	780	3.13	74(7.9m ³ /min)	6800	3200	120	24	16-28	4800	6900	G1751M24B9ZP300	
		840	3.37					48	36-60	2500	6000	G1751M48B9ZP-00	
								24	16-28	3600	5100	G1751M24B8ZP300	
10	353	710	2.85	71(7.5m ³ /min)	6200	2600	86	48	36-60	1800	3500	G1751M48B8ZP-00	
9.2	325	580	2.33	69(6.7m ³ /min)	5600	2000	62.4	24	12-27.6	2750	6100	G1751M24B7ZP-00	
								48	36-60	1360	2650	G1751M48B7ZP-00	
8.3	293	490	1.97	66.5(6.1m ³ /min)	5100	1500	47	24	12-27.6	2250	3800	G1751M24B6ZP-00	
								48	36-60	980	2100	G1751M48B6ZP-00	
7.3	258	360	1.45	63(5.3m ³ /min)	4500	1500	33.6	24	12-27.6	1500	2800	G1751M24B5ZP-00	
								48	36-60	700	1400	G1751M48B5ZP-00	

● Figures in the table are average measured values. Please request the product delivery specification when preparing a purchase specification.

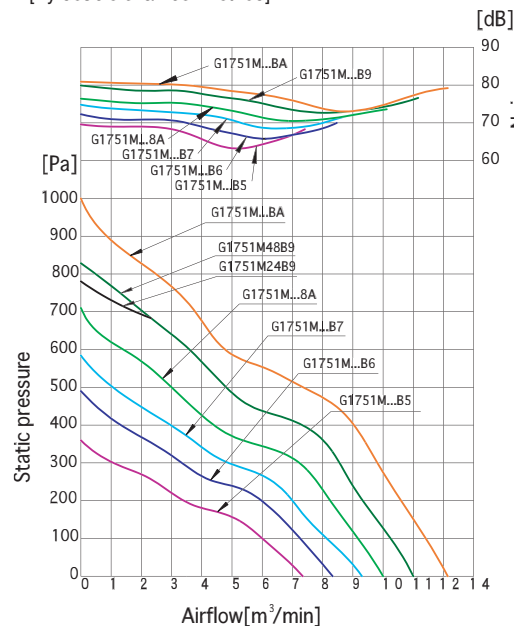
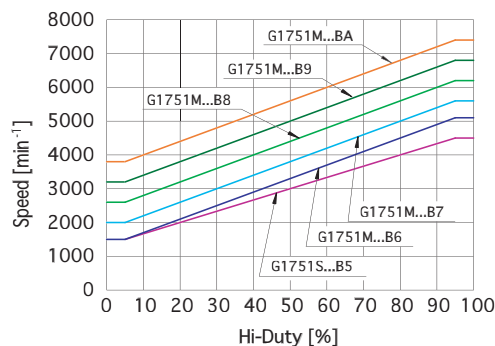
● The characteristics are the values at rated voltage (24V, 48 V), and normal temperature and humidity.

General specification

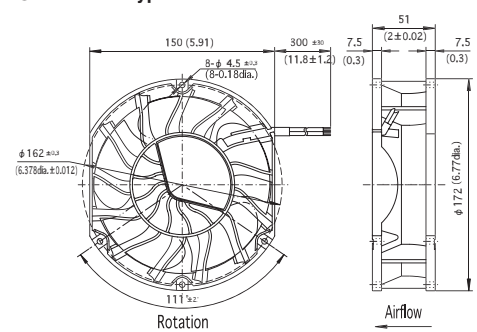
Materials Used	Venturi: Aluminum alloy die castings
	Propeller: ABS and PBT synthetic resins
	Bearing: Both side shielded ball bearing
Motor	Brushless DC motor, Protection type: Overcurrent detection and automatic resetting by current limiting
Standard Carton	12 to a carton of (450 x 380 x 220) mm, mass 11 kg

Wiring connection diagram**Standard airflow and static pressure characteristics (At rated voltage)**

[By double chamber method]

**PWM speed control specification**

● Japan Servo can meet many of your requirements for customization, such as special connectors, other sensors not listed above, variable speed specifications, and other modifications. Please contact Japan Servo during your product planning and development stage.

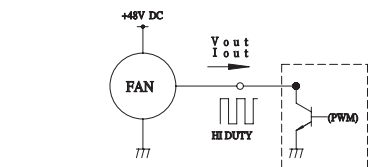
External dimensions in mm (inches)**Lead wire type**

Lead wire spec. AWG24 UL3266

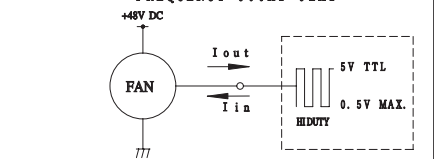
Color (+) Red
(-) Black
(Sensor) Yellow
(Speed control) Blue

SPEED PERFORMANCE (AT RATED VOL., FREE AIR) REF.**SPECIFICATION (ROOM TEMPERATURE)**

CASE 1 · I_{out} 1mA Max.
· V_{out} 5V Max.
· V_{load} 0.5V Max.
· FREQUENCY 500Hz~5kHz



CASE 2 · I_{out} 1mA Max.
· I_{in} 1mA Max.
· FREQUENCY 500Hz~5kHz





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WARNING

- Please do not exceed the specifications noted in this catalogue, otherwise there is a chance of electric shock, injury, or other damage.
- Please do not insert your fingers or any other object into the fan's interior, otherwise there is a chance of electric shock, injury, or fire.
- Any modifications made to this fan are beyond the limits of our guarantee. Japan Servo cannot take responsibility for any customer modifications.
- Please ensure that a thorough evaluation has been done before using this fan in medical equipment or other devices related to human lives.
- Please ensure that a thorough evaluation has been done before using this fan in applications that have a serious effect on the public.